

~~Abstract~~

An extrusion apparatus and method, and a tubular product  
5 made of several different materials.

The extrusion apparatus according to the invention  
comprises at least one stator (1, 6, 10), at least one  
10 rotor (2, 2a, 2b), and at least one annular feed gap (3)  
situated between the stator (1, 6, 10) and the rotor (2,  
2a, 2b). The diameter of the feed gap (3) decreases at  
least partly continuously in the direction of flow of the  
plastic material to be extruded, and its diameter also  
increases continuously at least at a section of its length  
15 in the aforementioned direction of flow. With such a  
construction, the pressure acting on the structure of the  
extrusion apparatus can be considerably balanced, i.e. the  
apparatus can be made more durable.

The invention also relates to a tubular product made of  
several different materials.

20 (Figure 1)